Tasaddaq Hussain

Software & AI Engineer — LLM Products, Machine Learning & Mobile

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PROFESSIONAL SUMMARY

Software & AI engineer with a B.S. in Software Engineering and an M.S. in Artificial Intelligence. I build LLM-powered products end-to-end — from the model or RAG pipeline to the backend and the cross-platform app on top — drawing on 5+ years of production engineering across full-time and freelance roles. I've delivered 30+ projects, shipped 6+ apps live to the App Store & Google Play (including my own AI products), and hold Top Rated status on Upwork with a 100% Job Success Score and consistent 5-star reviews. My Master's thesis developed a lightweight, interpretable CNN-Transformer for early detection of silent myocardial infarctions from 12-lead ECG (AUROC 0.9871), now being prepared for journal publication. I am pursuing research in efficient, trustworthy deep learning and applied LLM systems, with a PhD as my next step.

EDUCATION

M.S. in Artificial Intelligence — **Sep 2023 — Feb 2026**
The Islamia University of Bahawalpur, Pakistan
Thesis: "Early Detection of Silent Myocardial Infarctions Using Transformer-Based Models on ECG Signals" — built a lightweight **CNN-Transformer hybrid (682K parameters, 13× smaller than a ResNet baseline)** to detect silent / old myocardial infarctions from 12-lead ECG signals, achieving **AUROC 0.9871** (88% sensitivity, 97.5% specificity) on PhysioNet PTB-XL, with Grad-CAM interpretability confirming alignment with cardiac anatomy.

B.S. in Computer Software Engineering — **2019 — 2023**
Riphah International University, Pakistan

TECHNICAL SKILLS

AI / Machine Learning	LLM integration, RAG, prompt engineering, AI agents · PyTorch, TensorFlow, Transformers & CNNs, deep learning, model interpretability (Grad-CAM)
Mobile & Web	Flutter, Dart, iOS, Android, Web, Windows & macOS desktop, Next.js · Clean Architecture, MVVM, BLoC, Riverpod, Provider, SOLID principles
Backend & Cloud	Firebase, Supabase (PostgreSQL), Node.js, FastAPI, REST & GraphQL APIs, Authentication & real-time data
Practices & Tools	Agile, Git & GitHub, CI/CD (GitHub Actions, Codemagic, Fastlane), Android Studio, Xcode, VS Code, Google Antigravity, Postman, Figma, App Store & Google Play deployment

PROFESSIONAL EXPERIENCE

Lead Flutter Developer — Walnut · Freelance — **Jul 2024 — Present**
London Area, United Kingdom · Remote

- Long-term build partner for a London-based startup (**2+ years**), leading development of a cross-platform Flutter app and supporting web applications.
- Led the public launch on the App Store & Google Play and continue to ship new features, maintenance, and improvements.
- Work directly with the founder to translate product vision into a polished, emotionally-intelligent user experience.

Software & AI Engineer — Upwork (Top Rated) · Freelance Jan 2024 — Present

Remote · Clients across the UK, US & UAE

- Delivered **30+ end-to-end projects** for founders and shipped **6+ apps live** to the App Store & Google Play — maintaining a **100% Job Success Score** with all 5-star reviews.
- Built a broad range of products: full MVPs, role-based platforms, an OTT learning ecosystem with admin panel, plus podcast, quiz, and learning apps across iOS, Android & web.
- Engineered LLM-powered features on production Firebase, Supabase and FastAPI backends with clean Riverpod architecture, and rescued live apps — including restoring sign-in for **50,000+ users** and re-engineering legacy code.

Senior Flutter Software Engineer — Nextwys · Full-time Jul 2024 — Oct 2024

Bahawalpur, Pakistan · On-site

- Led Flutter development for client mobile apps, providing technical direction and mentoring team members.
- Delivered production-ready cross-platform features across iOS & Android.

Mobile Application Developer — AlphaRages · Full-time Apr 2023 — Mar 2024

Lahore, Pakistan · On-site

- Built and maintained cross-platform Flutter apps, owning features from design through store release.
- Partnered with clients and internal teams to translate requirements into shipped iOS & Android functionality.

Hybrid Mobile App Developer — Oneisok Information (OPC) Pvt. Ltd · Part-time Jun 2022 — Jun 2023

Remote

- Began my professional career building hybrid cross-platform iOS & Android apps with Flutter and Firebase.
- Worked across programming, back-end computing, and cross-platform concepts within an Agile team, with exposure to application security.

SELECTED PROJECTS

Tertio — AI Wellness Coach (Flutter · Supabase · LLM) 2025

- Designed, built & launched a live AI wellness coach on Google Play with real conversation memory on a production Supabase backend. *Founder & solo developer.*

Prompt Canvas — AI Image Generation (Flutter · Firebase · Open Source) 2024

- Open-source (MIT) app that turns text prompts into AI-generated art, with style controls, a community explore feed and a pluggable image-model API. *Founder & solo developer.*

Walnut — Mindful Dating App (Flutter · Firebase) 2024

- A mindful, emotionally-intelligent dating product designed for intentional connection over swipe volume — live on iOS & Android.

Bhagavad Gita — Production Auth Rescue (Flutter · Firebase Auth · Google Cloud) 2024

- Traced a production-only Google Sign-In failure locking out **50,000+ users** to an OAuth / Firebase misconfiguration and restored login on the live Play Store app. ★ 5.0 client review.

Trevola — Exact-Distance Route Generator (Flutter · Riverpod · OSRM) 2025

- Algorithm that generates a real, navigable route of an exact requested distance inside chosen countries — point-in-polygon geo-validation, Haversine projection and an iterative OSRM optimisation loop. Live on iOS & Google Play.

CERTIFICATIONS & CREDENTIALS

- **Hybrid Mobile App Development** — OneisOK Information (OPC) Pvt. Ltd · 2023
- **Experience Certificate** — Oneisok Information (OPC) Pvt. Ltd · 2023 (verified 1-year tenure as Hybrid Mobile App Developer)
- **Cisco Certified Entry Networking Technician (CCENT)** — Cisco

LANGUAGES

English — Fluent | **Urdu** — Native | **German** — Conversational | **Hindi** — Conversational